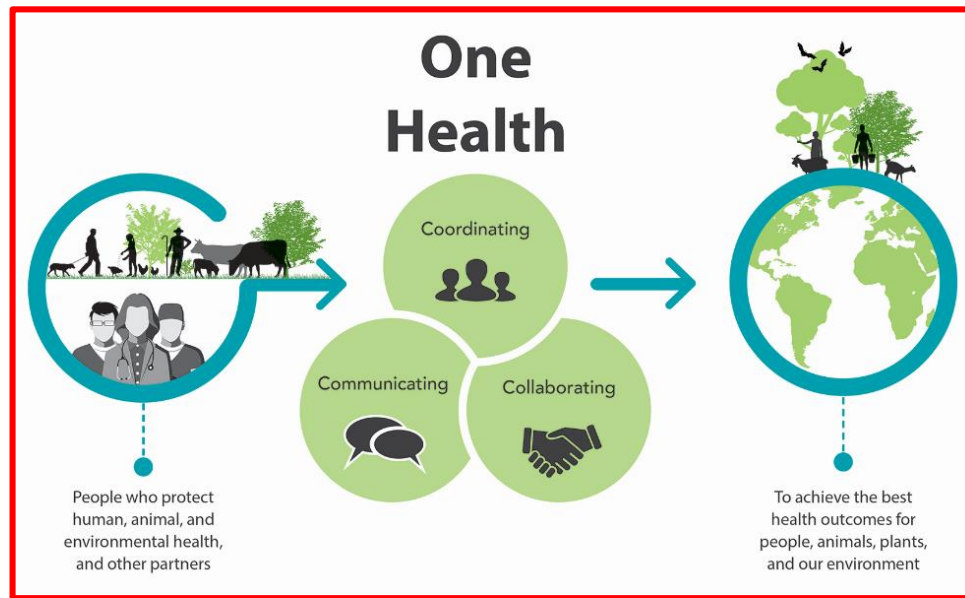


Symposium: Emerging Antibiotic Resistance

Antibiotic Resistance in a One-Health Concept

Prof. Andrea Endimiani, MD, PhD, FAMH

Institute for Infectious Diseases - University of Bern, Switzerland



CDC: The One Health concept recognizes that the health of people is connected to the health of animals and the environment. CDC uses a One Health approach by working with physicians, veterinarians, ecologists, and many others to monitor and control public health threats and to learn about how diseases spread among people, animals, and the environment.

One Health is defined as a collaborative, multisectoral, and transdisciplinary approach — working at the local, regional, national, and global levels — with the goal of achieving optimal health outcomes recognizing the interconnection between people, animals, plants, and their shared environment.

WHO: One Health is an approach to designing and implementing programmes, policies, legislation and research in which multiple sectors communicate and work together to achieve better public health outcomes.

It is particularly relevant for food and water safety, nutrition, the control of zoonoses, pollution management, and combatting antimicrobial resistance.

Foreign countries with high-prevalence of *MDR-Ent*
in humans and non-human settings:
impact on travelers and repatriated patients



Community



Health care
system

**Veterinary clinics
and risk of acquiring MDR-Ent**

ST410 and ST167:

successful clones in the One Health concept

Pollution of surface waters with MDR-Ent

**Importance of analyzing large and simultaneously
collected MDR-*Ent***

Thank you!

Edgar I. Campos-Madueno
(PhD student)

Claudia Aldeia
(Lab technician)

Yasmine Eddoubaji
(PhD student)

Cindy Kundlacz
(PostDoc)

Olivia Roher
(MD)

Dania Al Ismail *
(PostDoc)

Paarangi Chawla **
(BS student)

Aline I. Moser
(PostDoc)

Odette J. Bernasconi
(PostDoc)

Valentina Donà
(PostDoc)



Special thank to:

NRP72, SNF grant 177378

Prof. Vincent Perreten
(Bern)

Prof. Roger Stephan
(Zurich)

Prof. Christoph Hatz
(Basel)

Dr. Esther Kuenzli
(Basel)

Prof. Parham Sendi
(Bern)



SNF grant No. 192514



Advancing 3R
National Research Programme

SNF grant No. 206400

*



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

**



swissnex